PRODUCT DATA SHEET

Davco® Maximum Tile Adhesive Export

A FLEXIBLE CEMENT-BASED TILE ADHESIVE WITH MAXIMUM BOND STRENGTH

DESCRIPTION

Davco® Maximum Tile Adhesive Export ia a premium performance, flexible cement-based tile adheisve design for use with Porcelain, Natural Stone, Ceramic tiles and mosaics.
Davco® Maximum Tile Adhesive Export has exceptional bond strength, and excellent non-slump properties making it suitable for large format tile and stone installations.

USES

Commercial and domestic walls and floors including high foot traffic locations, bathrooms, showers, kitchens, laundries, living rooms, balconies, patio tiling applications.
Davco® Maximum Tile Adhesive Export is suitable for use in pools and spas when mixed with Davco Davelastic additive.

Suitable tile types include:
- Ceramic tiles
- Porcelain tiles
- Quarry tiles
- Mosaic Tiles
- Large format porcelain panels
- Natural Stone not sensitive to moisture

Suitable Substrates include:
- Concrete
- Cement boards and sheets
- Cement renders and screeds, including early aged screeds and concrete
- Rendered brick and blockwork
- Light weight construction boards coated with cement
- Sika approved acoustic underlayment's
- Under tile Sika waterproofing membranes, ie Davco K10 Plus Range
- Timber flooring with cement sheeting
- Substrates with under floor heating

CHARACTERISTICS / ADVANTAGES

- Exceptional bond strength
- Non slump for large format tile and stone installations
- Suitable with under floor heating
- Commercial grade
- Suitable in submersed applications such as pools and spa's when mixed with Davco Davelastic additive
- Low VOC

PRODUCT INFORMATION

Packaging	20kg paper bags - 64 bags per pallet
Appearance / Colour	White powder, colour may vary slightly due to sand source
Shelf life	If unopened, 12 month from date of manufacture
Storage conditions	Store in dry cool conditions out of direct sunlight.
Product Declaration	C2TES1 as per AS ISO 13007
Volatile organic compound (VOC) content	7 Grams per Litre - (SCAQMD method 304-91)

APPLICATION INFORMATION

Mixing Ratio	4.5 - 5.5 Litres of cool, clean potable water per 20kg bag
Consumption	6-7m2 per 20kg bag with 10mm notched trowel
Pot Life	3 hours at 23 degrees and 50% relative humidity. Adhesive may need restirring during potlife, do not add additional water, only re-stirr with mixing drill.

Applied Product Ready for Use		
	Application	**Wait Time**
	Set time prior to grout	24 hours
	Set time prior to dry area service	24 hours
	Set time prior to wet area service	3 days
	Set time prior to returning to sub-merged service	21 days
	All measurement are taken in laboratory conditions at 23°C and 50% relative humidity. Specification vary according to site conditions and should be taken as a guide only.	

Adjustability Time	Approximately 20 minutes

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

It is essential to plan the area to be tiled, with inclusion of movement joints, in accordance with the relevant Australian Standard . Failure to do so may result in drummy or lifting tiles. Make sure normal building or surface movement is accommodated by installing movement joints as follows:
▪ Over movement joints in the substrate
▪ At a junction between different substrate materials
▪ At fixtures interrupting the tile surface e.g. columns
▪ At internal vertical corners ▪ Around the perimeter of the tiling system
▪ At a maximum of 4.5m centres, in a grid pattern Movement joints should be kept free from dirt and adhesive droppings
▪ All movement joints can be filled with a suitable Sika sealant and relevant backer rod.

IMPORTANT CONSIDERATIONS

▪ Test product in an inconspicuous area first.
▪ Do not apply in temperatures above 35ºC or below 5ºC.
▪ In cool and / or humid conditions, allow longer setting times.
▪ Do not allow the adhesive to skin prior to laying the tiles. If the adhesive skins remove and dispose of it, then re-apply fresh adhesive.
▪ Not suitable for moisture sensitive stone, seek further advice from Sika representative.
▪ For tiling over existing ceramic tiles in wet areas, such as a shower recess, mix Davco® Maximum Tile Adhesive Export with a diluted Davco Davelastic solution.

▪ Do not use for tiling over existing tiles in submerged areas, such as swimming pools and spas.
▪ Due to uncontrollable external factors, efflorescence is beyond the control of the manufacturer.
▪ Setting times of adhesive is affected by site conditions, climate and could be faster or slower than specified.
▪ Not suitable for use with natural stone that is sesitive to moisture. Seek technical advice from Sika Australia when fixing moisture sensitive stone.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

▪ Personal protective equipment
▪ Mixing drill with stirring paddle
▪ Clean mixing buckets

Select a trowel with an appropriate square-notch size as per the following:

Tile size	Trowel notch size	Back-buttering required
Mosaic Tiles	4-6mm	
150x150mm	6mm	
200x200mm	8mm	
300x300mm	10mm	
400x400 and larger	12mm	Yes
Tiles with lugs, grooves or uneven backs	as above dependant on size	Yes
Translucent tiles	as above dependant on size	Yes

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SUBSTRATE QUALITY

All surfaces must be installed according to manufacturer's instructions and relevant Australian Standard(s) and be structurally sound, dry, clean and free from movement, oil, grease, wax, sealers, curing compounds, release agents and any other loose or contaminating material. Thoroughly clean old surfaces, or new surfaces that have been treated, prior to tiling Deeply contaminated surfaces must be scabbled / abraded to a clean, sound surface. Expose at least 80% of the original substrate of painted surfaces. Substrates shall meet relevant deflection standards outlined in the relevant Australian Standards.

SUBSTRATE PREPARATION

All surfaces* shall be primed with a suitable primer prior to application.
Do not apply primer to to waterproofing membranes, apply the adhesive directly over the waterproofing membrane

Substrate	Specific requirement	Primer
Concrete - wood float finish / rough finish	Cured min - 1 week	Ultraprime or PrimeX
Concrete - steel trowel finish / smooth finish	cured min 1 week, and free from laitance/not flaking	PrimeX
Rendered Blockwork & brickwork	Cured min 24 hours - (not drummy or cracked)	Ultraprime or PrimeX
Cement-based screeds	Cures min 24 hours (not drummy or cracked)	Ultraprime or PrimeX
Fibrecement sheeting or plasterboard	Correctly and firmly fixed	Ultraprime or PrimeX
Compressed Cement boards	Correctly and firmly fixed	PrimeX
Timber flooring or Particalboard	Securely bonded with ceramic tile underlay	Ultraprime or PrimeX
Existing Tiles	Securely bonded (not drummy or loose) mix adhesive with Davelastic	SikaFloor-14 Prep n Prime
Under tile heating	correctly installed with cement-based leveller	As appropiate for material

Refer to the specific primer product datasheet for the complete user instruction prior to application.

MIXING

1. Measure the right amount of clean, potable water (or diluted Davelastic solution) into a clean bucket.
2. Slowly add the powder into the water while mixing with a mixing paddle attached to a drill. Do not mix by hand.
3. Continue to mix for several minutes until a creamy consistency is achieved, free of lumps of powder.
4. Allow mixture to stand for 5 minutes, remix then use the adhesive.
▪ Adhesive may need restirring due its pot-life, do not add additional water to the mixture.

APPLICATION

Laying the Tiles
1. Deposit a quantity of adhesive onto the prepared substrate. Do not apply more adhesive than can be tiled within the open time of the product, usually from a single tile up to around 1m2 at a time.
2. Hold the notched trowel at an angle of 60º or greater to the substrate.
3. Spread the adhesive over the area where tile is to be applied, forming straight rows of adhesive "beads".
4. Where "back buttering" is required, use the straight side of the trowel to apply a thin covering of adhesive to the back of the tile.
5. Position the tile on the beaded adhesive and press firmly.
6. Move the tile forward and then back at 90º across the direction of the beads to ensure all beads are flattened leaving no voids under the tile. Occasionally lift a tile after placing it to check that the beads are fully compressed and that sufficient coverage has been achieved (90-100%). Replace the tile.
7. After laying a section at a time, remove any excess adhesive from the surface of the tiles and within the grout joint while the adhesive is still wet.

CLEANING OF TOOLS

Clean tools and equipment before the adhesives sets

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which

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will be supplied on request.

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